

DUAL MODE MULTI-SLOT EGPRS TRANSMITTER

ABSTRACT OF THE DISCLOSURE

A method is disclosed to operate a dual mode multi-timeslot RF transmitter, as is an RF transmitter that include a control unit that operates in accordance with the method. The method includes, prior to a first timeslot, setting a plurality of control signals for the RF transmitter in accordance with a first modulation format used during the first timeslot; and during a guard period between the first timeslot and a next, temporally adjacent timeslot, setting the plurality of control signals for the RF transmitter in accordance with a second modulation format used during the second timeslot, where the first modulation format differs from the second modulation format. In a preferred embodiment one of the modulation formats is 8-PSK that uses a power amplifier in a fixed gain mode, the other of the modulation formats is GMSK that uses the power amplifier in a variable gain mode, one of the plurality of control signals sets the power amplifier gain mode and is ramped during the guard period, and another one of the plurality of control signals sets the power amplifier quiescent current.